

CLAIMS

1. A thermal spraying method for spraying a metal thermal spray material to a metal body to form a spray coating for corrosion prevention, comprising:

5 roughening a surface of a thermal spray subject by using a grinding tool to achieve an average roughness Ra of the surface in a range of from 2 to 10 μm ; and

10 performing thermal spraying under a condition in which an average area of each of molten particles of the thermal spray material when the molten particles have stuck to the surface of the thermal spray subject is 10000 to 100000 μm^2 .

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2. The thermal spraying method according to claim 1, wherein plasma spraying is employed as the thermal spraying.

15 3. The thermal spraying method according to claim 2, wherein a thermal spraying apparatus that uses the metal thermal spray material in the form of a line or a stick is employed as a plasma spraying apparatus.

20 4. The thermal spraying method according to claim 1, wherein aluminum or an aluminum alloy such as an aluminum-magnesium alloy or a zinc-aluminum alloy is employed as the metal thermal spray material.

25 5. The thermal spraying method according to claim 2, wherein aluminum or an aluminum alloy such as an aluminum-magnesium alloy or a zinc-aluminum alloy is employed as the metal thermal spray material.

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6. The thermal spraying method according to claim 3, wherein aluminum or an aluminum alloy such as an aluminum-magnesium alloy or a zinc-aluminum alloy is employed as the metal thermal spray material.

5 7. The thermal spraying method according to claim 1, comprising performing a sealing treatment after the spray coating is formed.

8. The thermal spraying method according to claim 2, comprising performing a sealing treatment after the spray coating is formed.

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9. The thermal spraying method according to claim 3, comprising performing a sealing treatment after the spray coating is formed.

10. The thermal spraying method according to claim 4, comprising performing a sealing treatment after the spray coating is formed.

15 11. The thermal spraying method according to claim 5, comprising performing a sealing treatment after the spray coating is formed.

20 12. The thermal spraying method according to claim 6, comprising performing a sealing treatment after the spray coating is formed.